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Hartmut Liefke, Dan Suciu

May 2000 **ACM SIGMOD Record , Proceedings of the 2000 ACM SIGMOD international conference on Management of data SIGMOD '00**, Volume 29 Issue 2**Publisher:** ACM PressFull text available: [pdf\(404.39 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We describe a tool for compressing XML data, with applications in data exchange and archiving, which usually achieves about twice the compression ratio of gzip at roughly the same speed. The compressor, called XMill, incorporates and combines existing compressors in order to apply them to heterogeneous XML data: it uses zlib, the library function for gzip, a collection of datatype specific compressors for simple data types, and, possibly, user defined compressors for application specific data ...

2 [An extensible compressor for XML data](#)

Hartmut Liefke, Dan Suciu

March 2000 **ACM SIGMOD Record**, Volume 29 Issue 1**Publisher:** ACM PressFull text available: [pdf\(574.51 KB\)](#) Additional Information: [full citation](#), [citations](#), [index terms](#)**3** [Archiving scientific data](#)

Peter Buneman, Sanjeev Khanna, Keishi Tajima, Wang-Chiew Tan

March 2004 **ACM Transactions on Database Systems (TODS)**, Volume 29 Issue 1**Publisher:** ACM PressFull text available: [pdf\(745.61 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Archiving is important for scientific data, where it is necessary to record all past versions of a database in order to verify findings based upon a specific version. Much scientific data is held in a hierarchical format and has a key structure that provides a canonical identification for each element of the hierarchy. In this article, we exploit these properties to develop an archiving technique that is both efficient in its use of space and preserves the continuity of elements through versions ...

Keywords: Keys for XML




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Volume 12, Issue 1, Jan.-March 2005 Page(s):4 - 7
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TITLE: Encoding method for MPEG-7 documents comprises using a table from the schema, scanning a hierarchical memory representation and retrieving the identification information before encoding

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PATENT-ASSIGNEE:

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BASIC-ABSTRACT:

NOVELTY - The encoding method for encoding a description element of an instance of an XML-like schema comprises using at least one table derived from the schema containing identification information for solely identifying each description element in a hierarchical level and structural information for retrieving a child description element from a parent description element. Also, scanning a hierarchical memory representation of an instance from parent description elements to child description elements until reaching the description to be encoded and retrieving the identification information of each scanned description element. Finally, the description element to be encoded is encoded as a fragment comprising the content and a sequence of the retrieved identification information.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) a decoding method
- (2) an encoder
- (3) a memory
- (4) a decoder
- (5) a transmission system
- (6) a signal for transmission over a transmission network and
- (7) a table intended to be used in an encoder.

USE - For encoding a description element of an instance of an Extensible Markup Language (XML) like schema, in particular, MPEG-7 documents

ADVANTAGE - The method provides random access to instance elements and attributes, incremental non-ordered and scalable transfer, compactness: only elements and attributes that have a primitive type content are coded, easy integration with instance update protocol, easy parsing and partial instantiation of binary MPEG-7 descriptions.

DESCRIPTION OF DRAWING(S) - The drawing shows a schematic representation of a transmission system.

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EQUIVALENT-ABSTRACTS:

NOVELTY - The encoding method for encoding a description element of an instance of an XML-like schema comprises using at least one table derived from the schema containing identification information for solely identifying each description element in a hierarchical level and structural information for retrieving a child description element from a parent description element. Also, scanning a hierarchical memory representation of an instance from parent description elements to child description elements until reaching the description to be encoded and retrieving the identification information of each scanned description element. Finally, the description element to be encoded is encoded as a fragment comprising the content and a sequence of the retrieved identification information.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

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- (3) a memory
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- (7) a table intended to be used in an encoder.

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DESCRIPTION OF DRAWING(S) - The drawing shows a schematic representation of a transmission system.

CHOSEN-DRAWING: Dwg.1/5

TITLE-TERMS: ENCODE METHOD DOCUMENT COMPRISE TABLE SCAN HIERARCHY MEMORY REPRESENT RETRIEVAL IDENTIFY INFORMATION ENCODE

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